

**AMENDMENTS TO THE CLAIMS**

1-8. (Canceled)

9. (New) An ultrasonic inspection apparatus for non-destructive inspection of a work piece, the work piece having an entrance surface and a back wall, the ultrasonic inspection apparatus comprising:

a transmit/receive probe, the transmit/receiver probe comprising a couplant for coupling to the entrance surface of the work piece,

a transmitter connected to the transmit/receive probe, the transmitter generating transmit pulses which it then delivers to the probe, wherein the transmit pulses, on the one side, are reflected at the entrance surface of the work piece back to the probe with an entrance echo pulse resulting there from and, on the other side, penetrate the work piece where they are reflected at least once at the back wall of the work piece with a back wall echo pulse resulting there from,

a receiver connected to the probe, the receiver being suited for receiving the entrance echo pulse and the at least one back wall echo pulse and converting the received echo pulses to electric echo signals, and

a monitor that is connected to the receiver for displaying the electric echo signals received from the receiver,

wherein the ultrasonic inspection apparatus further has a bar display, the bar display being suited for showing at least one signal value in real time, with the signal value being derived from one of the following: the entrance echo, one back wall echo, a plurality of back wall echoes.

10. (New) The ultrasonic inspection apparatus of claim 9, wherein

the work piece under inspection further comprises flaws,

the transmit pulses penetrating the work piece are also reflected at the flaws with flaw echoes resulting there from, and

the bar display being suited for showing a signal value of a signal being derived from one of the following: the flaw echo of one selected flaw or the flaw echoes of a plurality of flaws.

11. (New) The ultrasonic inspection apparatus of claim 9, with the bar display permitting to display

in multiple colors, and

at least two signal values, wherein the two signal values are displayed one above the other in different colors.

12. (New) The ultrasonic inspection apparatus of claim 9, wherein the bar display is disposed proximate to the monitor.

13. (New) The ultrasonic inspection apparatus of claim 9, wherein the monitor has a stripe-shaped area and the stripe-shaped area of the monitor is used as the bar display.

14. (New) The ultrasonic inspection apparatus of claim 9, wherein the monitor the stripe-shaped area of the monitor is a border area of the monitor.

15 (New) The ultrasonic inspection apparatus of claim 9, wherein

the monitor has a time axis and

the bar display is disposed so as to extend transversely with respect to the time axis of the monitor.

16. (New) The ultrasonic inspection apparatus of claim 9, wherein

the monitor has a transverse dimension and

the bar display has a length that equals the transverse dimension of the monitor.

17. (New) The ultrasonic inspection apparatus of claim 9, wherein the bar display is realized by a color LCD array.

18. (New) The ultrasonic inspection apparatus of claim 9, wherein

the work piece under inspection is composed of at least two sheet metal plates that are joined together by a spot weld joint, and

the quality of the spot weld joint is to be determined.